

U.S. PATENT & TRADEMARK OFFICE
NOV 13 2001
JC98

Patent
Attorney's Docket No. 031941-092

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Per LIGANDER et al.

Application No. 09/943,203

Filed: August 30, 2001

For: Sequentially Processed Circuitry

Group Art Unit: ²⁶³¹~~2835~~
Examiner: Unassigned

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INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449
for the above-identified patent application.

No additional fee for submission of an IDS is required.

The Commissioner is hereby authorized to charge any appropriate fees under 37
C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any
overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

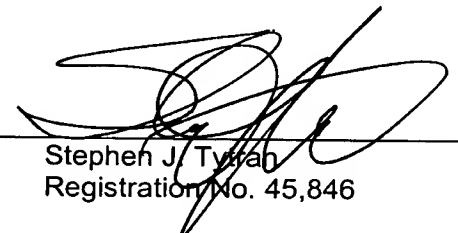
Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404
Alexandria, Virginia 22313-1404
(919) 941-9240

Date: November 13, 2001

By:


Stephen J. Tyran
Registration No. 45,846

NOV 13 2001
TRADEMARK OFFICE 86CJ

SHEET 1 OF 1

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

ATTORNEY'S DKT No.
031941-092

APPLICATION No.
09/943,203

APPLICANT
Per LIGANDER et al.

FILING DATE
August 30, 2001

GROUP
2835

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	no
	0 881 866	A1	EP	12/02/1998		X
	0 720 123	A2	EP	07/03/1997	X	
	0 417 887	A2	EP	03/20/1991	X	

NON PATENT LITERATURE DOCUMENTS

<p align="center">REFERENCE DOCUMENTS</p>			
Examiner Initials	<p align="center">Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.</p>		
Examiner Signature			<p align="center">Date Considered</p>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

(05/01)



Patent
Attorney's Docket No. 031941-092

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
Per LIGANDER et al.)	Group Art Unit: 2835
Application No. 09/943,203)	Examiner: Unassigned
Filed: August 30, 2001)	
For: Sequentially Processed Circuitry)	

TC Examined 11/13/2001
11/13/2001
11/13/2001

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

Some of these documents were cited in the International-Type Search Report prepared in the corresponding Swedish priority application. A copy of the Report is also enclosed.

This Information Disclosure Statement contains information which is not in the English language but was cited in a search report or other action by a foreign patent office in a counterpart foreign application. In accordance with M.P.E.P. § 609 A(3) an English language version of the search report or action which indicates the degree of relevance found by the foreign office is being submitted herewith.

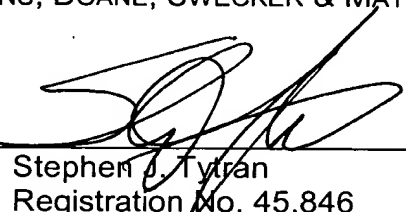
The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By: _____


Stephen J. Tytran
Registration No. 45,846

P.O. Box 1404
Alexandria, VA 22313-1404
Phone: (919) 941-9240

Date: November 13, 2001

PATENT COOPERATION TREATY

PCT

INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

National application No. 00030858	Country or Office of filing SE	Applicant's or agent's file reference E42 P39SE
Filing date (day/month/year) 31 August 2000		(Earliest) Priority Date (day/month/year)
Applicant Telefonaktiebolaget LM Ericsson (publ)		
Date of request for international-type search 31 August 2000		International-type search request No. SE 00/01003

This international-type search report has been prepared by this International Searching Authority and is transmitted to the applicant.

This international-type search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (See Box I).
2. ☐ Unity of invention is lacking (See Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international-type search was carried out on the basis of the sequence listing
 - ☐ filed with the international application.
 - ☐ furnished by the applicant separately from the international application,
 - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - ☐ transcribed by this Authority.

INTERNATIONAL-TYPE SEARCH REPORT

Search request No.

SE 00/01003

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H05K 3/28, H05K 3/12, H01L 23/28, H01L 21/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H01L, H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0881866 A1 (ROBERT BOSCH GMBH), 2 December 1998 (02.12.98), column 3, line 4 - column 4, line 45, figures 1,3, abstract --	1-36
X	EP 0720123 A2 (MITSUBISHI DENKI KABUSHIKI KAISHA), 3 July 1996 (03.07.96), column 9, line 34 - column 10, line 13, figure 12 --	1-36
A	US 5681757 A (D.J.HAYES), 28 October 1997 (28.10.97), abstract --	4,6,21,23

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international-type search

26 March 2001

Date of mailing of the international-type search report

2001-03-30

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Kerstin Waczinska/LR

Telephone No. +46 8 782 25 00

INTERNATIONAL-TYPE SEARCH REPORT

Search request No.

SE 00/01003

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0417887 A2 (RYODEN KASEI CO,LTD. ET AL), 20 March 1991 (20.03.91), figures 1-9, abstract -----	1-36

INTERNATIONAL-TYPE SEARCH REPORT
Information on patent family members

25/02/01

Search request No.

SE 00/01003

EP	0881866	A1	02/12/98	DE	19722357 C	19/11/98
				JP	10335863 A	18/12/98
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EP	0720123	A2	03/07/96	CN	1050681 B	22/03/00
				CN	1131303 A	18/09/96
				JP	8230367 A	10/09/96
				KR	169554 B	15/01/99
				US	5952713 A	14/09/99
<hr/>						
US	5681757	A	28/10/97	NONE		
<hr/>						
EP	0417887	A2	20/03/91	DE	69020077 D,T	09/11/95
				JP	2808717 B	08/10/98
				JP	3096395 A	22/04/91
				US	5327010 A	05/07/94
				JP	2674235 B	12/11/97
				JP	3097596 A	23/04/91